

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/633,769	08/04/2003	Junichi Minamino	YAMAP0881US 6490	
43076	7590 04/28/2006	EXAMINER		
	ARALINO (GENERA	PATEL, GAUTAM		
· ·	TO, BOISSELLE & SK AVENUE, NINETEEN	ART UNIT	PAPER NUMBER	
CLEVELAND	O, OH 44115-2191	2627		
			DATE MAILED: 04/28/2000	6

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	olication No. Applicant(s)						
		10/633,769		MINAMINO ET AL.					
Office Action Summary			Examiner		Art Unit				
			Gautam R. I	Patel	2627				
Period fo	The MAILING DATE of this commun or Reply	nication appe	ears on the c	over sheet with the c	orrespondence ac	ddress			
WHIC - Exter after - If NC - Failu Any r	ORTENED STATUTORY PERIOD F CHEVER IS LONGER, FROM THE IN Insions of time may be available under the provisions SIX (6) MONTHS from the mailing date of this coming period for reply is specified above, the maximum is re to reply within the set or extended period for reply eply received by the Office later than three months and patent term adjustment. See 37 CFR 1.704(b).	MAILING DATES of 37 CFR 1.136 munication. tatutory period will y will, by statute, c	TE OF THIS (a). In no event Il apply and will e cause the applica	S COMMUNICATION , however, may a reply be time expire SIX (6) MONTHS from ation to become ABANDONE	J. nely filed the mailing date of this of the mailing date of this of the control	,			
Status									
1)[]	Responsive to communication(s) file	ed on							
				n-final.					
<i>'</i> —	This action is FINAL . 2b) This action is non-final. Since this application is in condition for allowance except for formal matters, prosecution as to the merits is								
٠,۵	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Dispositi	on of Claims			·		·			
		annlication							
,	Claim(s) <u>1-14</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.								
	□ Claim(s) is/are allowed.								
•	☐ Claim(s)is/are allowed. ☐ Claim(s) <u>1-14</u> is/are rejected.								
· · · · · · · · · · · · · · · · · · ·	_								
	Claim(s) is/are objected to. Claim(s) are subject to restriction and/or election requirement.								
	on Papers			, un o mont					
	·								
· —	The specification is objected to by the			1					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.									
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).								
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
11)[_]	The dath of declaration is objected t	o by the Exa	aminer. Note	the attached Office	Action or form P	10-152.			
Priority ι	ınder 35 U.S.C. § 119								
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of:									
	1. Certified copies of the priority documents have been received.								
	 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage 								
	3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).								
* 5	* See the attached detailed Office action for a list of the certified copies not received.								
	and an analysis and a second as a second a			106.00					
Attachmen	t(s)								
	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (I			Paper No(s)/Mail Da	ite				
	nation Disclosure Statement(s) (PTO-1449 o r No(s)/Mail Date	r PTO/SB/08)		5) Notice of Informal Patent Application (PTO-152) 6) Other:					

Application/Control Number: 10/633,769 Page 2

Art Unit: 2627

DETAILED ACTION

1. Claims 1-14 are pending for the examination.

Priority

2. Receipt is acknowledged of papers submitted under 35 U.S.C. § 119(a)-(d), which papers have been placed of record in the file.

NOTES/REMARKS

3. It not clear from the drawings or from specification how figure 6 and 7 are related what parts in figure 7 constitutes parts 102 105 and 127 in fig. 6. Figures 12 and 13 has the same problem.

Specification

4. The disclosure is objected for following reasons.

The title of the invention is neither precise nor descriptive. A new title is required which should include, using twenty words or fewer, claimed features that differentiate the invention from the Prior Art. It is recommended that the title should reflect the gist of or the improvement of the present invention.

Correction is required.

Claim Rejections - 35 U.S.C. § 101

5. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

the claimed invention is directed to non-statutory subject matter.

Claim 8 does not define what is being claimed but simply states what a recording medium has. It is not even clear if claim pertains to an apparatus or a method as such.

When nonfunctional descriptive material is recorded on some computer-readable medium, in computer or an electromagnetic carrier signal, it is non statutory since no requisite functionality is present to satisfy the practical application requirement. Merely claiming nonfunctional descriptive material. I.e. abstract idea, stored in a computer-readable medium, in a computer or on an electromagnetic carrier signal does not make it statutory. See Diehr, 45 U.S. at 185-86, 209 USPQ at 8 (noting that the claims for an algorithm in Benson were unpatentable as

Art Unit: 2627

abstract idea because {[t]he sole particle application of the algorithm was in connection with programming of a general purpose computer.").

Claim Rejections - 35 U.S.C. § 112

Page 3

6. The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 8 and 14 are rejected under 35 U.S.C. § 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 8, lines 1-5 are confusing and unclear. It is not clear at all what is being claimed here. Claim in neither an apparatus nor a method, it simply states medium having some data on it. All mediums inherently has some data on it.

As to claim 14 it is not clear at all if it a an apparatus claim or a method claim. Claim does not clearly set forth the metes and bounds of the patent protection desired.

Claim Rejections - 35 U.S.C. § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. § 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless --

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-7 and 9-13 are rejected under 35 U.S.C. § 102(b) as being anticipated by Tanoue et al., US. patent 6,128,260 (hereafter Tanoue).

As to claim 1, Tanoue discloses the invention as claimed [see Figs. 1, 6-7] including a data modulation section, a parameter value changing section and a recording section, comprising:

a data modulation section [fig.6, unit 14] for modulating data in accordance with a prescribed modulation rule [col. 11, lines 24-60];

a parameter value changing section [fig. 6, unit 38] for changing at least one parameter value of the prescribed modulation rule [col. 13, lines 19-29 7 col. 15, lines 8-38]; and

a recording section [fig. 6, unit 5] for recording the data modulated in accordance with the prescribed modulation rule on the recording medium [col. 11, lies 26-60].

Page 4

8. The aforementioned claim 2, recites the following elements, inter alia, disclosed in Tanoue:

the prescribed modulation rule is a state-type modulation rule, and the at least one parameter value is an initial value of a state [col. 11, lies 26-60 & col. 15, lines 8-38].

9. The aforementioned claim 3, recites the following elements, inter alia, disclosed in Tanoue:

the prescribed modulation rule uses a digital sum value, and the at least one parameter value is an initial value of the digital sum value [col. 6, lines 21-31].

10. The aforementioned claim 4, recites the following elements, inter alia, disclosed in Tanoue:

the parameter value changing section changes the at least one parameter value randomly col. 15, lines 8-38].

11. The aforementioned claim 5, recites the following elements, inter alia, disclosed in Tanoue:

the parameter value changing section changes the at least one parameter value in a prescribed order [col. 15, lines 8-38].

NOTE: moment parameter is in a prescribed order.

12. The aforementioned claim 6, recites the following elements, inter alia, disclosed in Tanoue:

comprising a storage section [fig. 6, unit2 and unit 38] for storing a previously used parameter value, wherein the parameter value changing section randomly selects a parameter value to be set from parameter values which are different from the previously used parameter value [col. 11, lines 24-60 & col. 13, lines 30-52];

Application/Control Number: 10/633,769 Page 5

Art Unit: 2627

13. As to claim 7, it is a method claim corresponding to an apparatus claim 1 and it is therefore rejected for the similar reasons set forth in the rejection of claim 1, above.

14. The aforementioned claim 9, recites the following elements, inter alia, disclosed in Tanoue:

a parameter value changing section [fig. 6, unit 38] for changing a parameter value representing a target value of an offset amount of a data recording position from a prescribed reference position [col. 13, lines 19-29 7 col. 15, lines 8-38];

an offset amount changing section [gap field control] for changing the offset amount of the data recording position from the prescribed reference position such that as data recording proceeds, the offset amount of the data recording position from the prescribed reference position approaches the target value [col. 4, lines 41-64 & col. 11, lines 24-60]; and

a recording section [fig. 6, unit 5] for recording the data on the recording medium at the data recording position [col. 11, lies 26-60].

- 15. As to claims 10-12, they are system claims corresponding to claims 4-6 respectively and they are therefore rejected for the similar reasons set forth in the rejection of claims 4-6 respectively, <u>above</u>.
- 16. As to claim 13, it is drawn to a method corresponding to the apparatus of claim 9, and is therefore rejected for similar reasons set forth in the rejection of claim 9, above.
- 17. A search based on the best understanding of the claims has been made to find the most pertinent art, but no statement about invention will be appropriate at this time regarding the allowableness of claims 8 and 14 and no art rejection will be made in this office action regarding the claims 8 & 14, due to the speculation required to interpret the claims because of their indefiniteness under 35 U.S.C. 112, 1st and 2nd paragraphs as noted above (see In re Steele, 134 USPQ 292).

Other prior art cited

18. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Art Unit: 2627

a) Arts (US. Patent 6084536).

b) Knado et al. (US. patent 6650607).

c) Lokhoff et al. (US. patent 5,117,313)

Contact information

19. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Gautam R. Patel whose telephone number is 571-272-7625. The examiner can normally be reached on Monday through Thursday from 7:30 to 6.

The appropriate fax number for the organization (Group 2650) where this application or proceeding is assigned is 571-273-8300.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Dwayne Bost, who can be reached on (571) 272-7023.

Any inquiry of a general nature or relating to the status of this application should be directed to the Electronic Business Center whose telephone number is 866-217-9197 or the USPTO contact Center telephone number is (800) PTO-9199.

GAUTAM R. PATEL

Gautam R. Patel Primary Examiner Group Art Unit 2627

Page 6

April 25, 2006